Ballard Power Systems Europe A/S
Majsmarken 1
9500 Hobro
Denmark

Revision history		
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Short Title	B99 – Ballard Container Fire Resistance
Full Title	B99 – Ballard Container Fire Resistance
Abstract	

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Revision Record

Rev #	Description	Revised By	Date
1.0	First Release	KHE	January 24, 2025

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1.0 Purpose

The purpose of this document is to provide Material Safety Data Sheet, for the insulation material installed in the Ballard Fuel Cell container to provide passive fire protection. The container deliver for the Crosswind project is in accordance with standard container solution from Ballar Power systems and do not fulfill requirements for Offshore installation as stated in the contract (As a minimum, the Fuel Cell container shall provide 2 hours fire rating). The Ballard Container delivered do not have fire rating.

2.0 Overview of Material Data Sheets

The complete list of insulation material used in the 1MW fuel cell container (MEGABLOCK) is shown below.

Manufacturer	Type	Name	Description / Use	Sub-assembly
TRIMOTERM	Insulation	Insulation	Installed inside the container to create fire protection as well as creating protection for low temperature.	Container Solution

COMPANY PROFILE



Trimo is a one of the leading European companies developing original and complete building envelope solutions in the areas of fire-proof façades and roofs .

Located in Trebnje, Slovenia, Trimo sells products and services under its own brand cross more than 100 countries worldwide and has a sales network in almost 30 countries. We are a reliable, trustworthy global supplier of innovative, flexible, energy-efficient and environmentally friendly architectural building solutions.

Our customers are at the heart of our operations as we deeply understand their needs and provide them with the highest level of service and product quality. The list of outstanding and reputable partners such as Airbus, London Heathrow, Nestle, Philips, DHL, Porsche, IKEA, Prologis, Mercedes Benz, Coca Cola and many others is a true reflection of our passion, responsibility and committment to our work.

ISO 9001 ISO 14001 ISO 45001 BUREAU VERITAS Certification

Mitglied des: IFBS Industrieverband für Bausysteme im Metalleichtbau

TRIMO D.O.O.
PRIJATELJEVA CESTA 12,
8210 TREBNJE, SLOVENIA
T: +386 (0)7 34 60 200
F: +386 (0)7 34 60 127
TRIMO@TRIMO-GROUP.COM
WWW.TRIMO-GROUP.COM

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Ballard Container

PROFILE TYPES



S (standard) profile



V profile



V2 profile



V6 profile

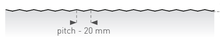


G (smooth) profile

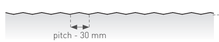
M (micro-lined) profile



M2 (micro-lined) profile



M3 (micro-lined) profile



M8 (micro-lined) profile



Trapezoid profile



Trimoterm FTV profile type	A	B
S (standard) profile	•	•
V profile (V, V2, V6*)	•	•
G (smooth) profile	•	•
Micro-lined profile (M, M3)	•	
Micro-lined profile (M2)		•
Micro-lined profile (M8)	•	•

* Available with 1.200 mm module width only.

Trimoterm FTV HL profile type	A	B
S (standard) profile	•	•
V profile (V, V2, V6*)	•	•
G (smooth) profile	•	•
Micro-lined profile (M, M3)	•	
Micro-lined profile (M2)		•
Micro-lined profile (M8)	•	•

* Available with 1.200 mm module width only.

Trimoterm SNV profile type	A	B
Trapezoid	•	
S (standard) profile		•
V profile (V, V2)		•
G (smooth) profile		•
Micro-lined profile (M2)		•

NOTES: The internal and external Trimoterm profiles seen in this document present the main range of profile options. Some combinations are mutually exclusive depending on the type of profile and product. For the approval of the requested profile combination please contact Trimo's technical support team. The arrangement of V profile (and all others) typically starts on the middle (centred) of panel steel sheet prior to forming stage. Module end, grove and the distance from the panel edge depends on Trimoterm panel module and may vary. Any other V profile arrangements are declared as non-standard and a subject of individual order. The arrangement of S profile typically starts on the middle (centred) of the Trimoterm panel module. Module end and the distance from the panel edge depends on Trimoterm panel module and may vary. Smooth profile (G) - to ensure an optimal smooth surface for building façades external side of the panel 0,7 mm steel sheet thickness must be used in lieu of standard 0,55 mm.

COLOURS



NOTES: Colours may slightly deviate due to different monitors and prints compared to original colours.

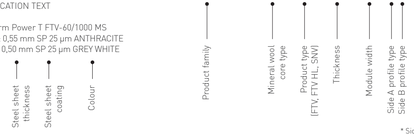
Trimo can send you a metal swatch upon request. Colour range does not in any case define delivery terms or any other terms of specific skin colour.

Colour range presented shows only a fraction of most usable colours within the variety of colours available.

PANEL MARKING

SPECIFICATION TEXT

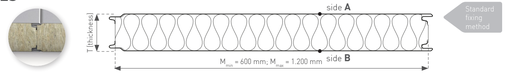
Trimoterm Power T FTV-60/1000 MS
external: 0,55 mm SP 25 µm ANTHRACITE
internal: 0,50 mm SP 25 µm GREY WHITE



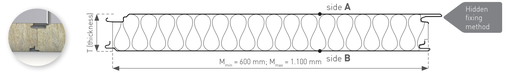
* Side A usually presents the external side of a panel.

PRODUCT TYPES

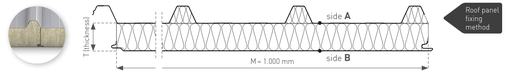
Trimoterm FTV
Horizontal and vertical panel orientation



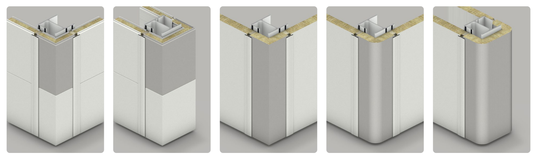
Trimoterm FTV HL
Horizontal and vertical panel orientation



Trimoterm SNV
Panel laying according to roof inclination



CORNER ELEMENTS



L-corner
Horizontal
Transversal sharp-edged corner element

U-corner
Horizontal
Double transversal sharp-edged corner element

L-corner
Vertical
Longitudinal sharp-edged corner element

Rounded L-corner
Vertical
Longitudinal curved corner element

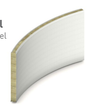
Rounded U-corner
Vertical
Double longitudinal curved corner element

SEGMENTED PANELS

Horizontal
Convex panel



Horizontal
Concave panel

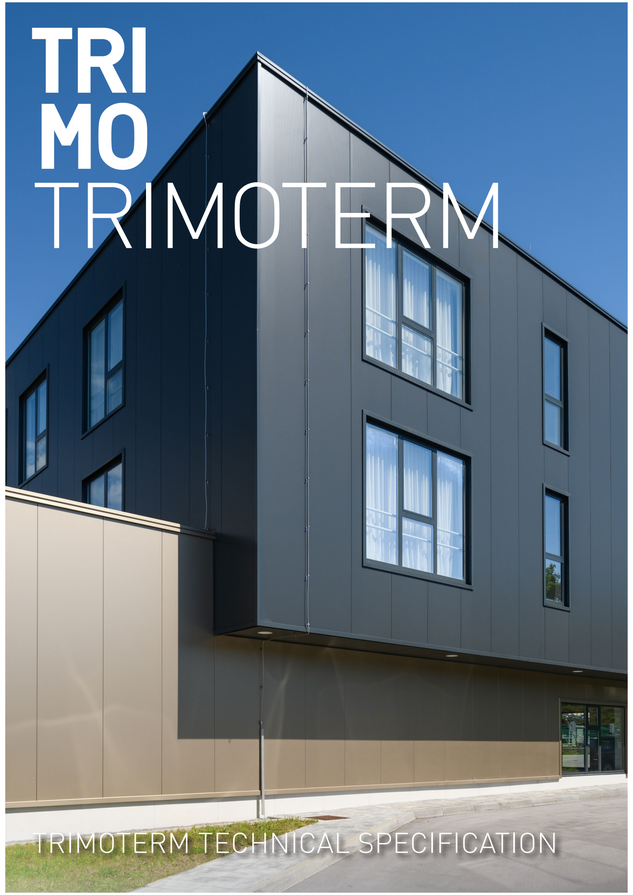


Vertical
Convex panel

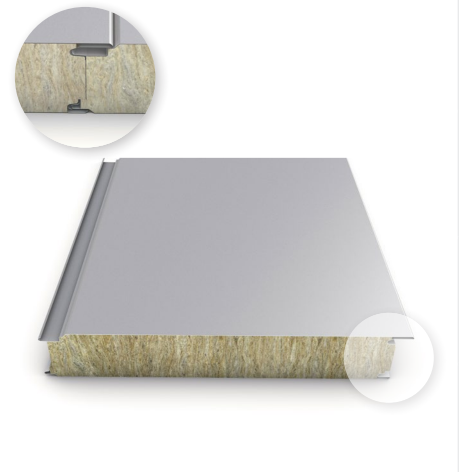
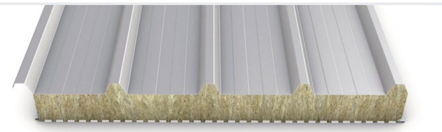


Vertical
Concave panel





TRIMOTERM

Product family, product type	Render
FTV (façade panel with standard fixing)	
FTV HL (façade panel with hidden fixing)	
SNV (roof panel)	
FTV SOUND	 perforated inner side
FTV HL SOUND	 perforated inner side
SNV SOUND	 perforated inner side

MAX. ACHIAVABLE FIRE RESISTANCE (EN 14509)**

Product family, product type	Core type	60	80	100	120	133	150	172	200	220	240	250*
		PANEL THICKNESS [mm]										
FTV	POWER T	-	-	up to EI90	up to EI120	up to EI120	up to EI180	up to EI180	up to EI180	**** up to EI180	up to EI180	up to EI180
FTV	POWER S	**** up to EI30	up to EI60	up to EI120	up to EI120	up to EI120	up to EI180	up to EI180	up to EI180	n/a	up to EI180	n/a
FTV	PERFORM R	-	up to EI30	up to EI120	up to EI120	up to EI120	up to EI180	up to EI180	up to EI240	n/a	up to EI240	n/a
FTV	PERFORM C	**** up to EI30	up to EI60	up to EI120	up to EI120	up to EI120	up to EI180	up to EI180	up to EI240	n/a	up to EI240	n/a
FTV HL	POWER T	-	up to EI30	up to EI60	up to EI120	up to EI120	up to EI180	up to EI240	up to EI240	**** up to EI240	up to EI240	up to EI240
FTV HL	POWER S	**** up to EI30	up to EI60	up to EI120	up to EI120	up to EI120	up to EI180	up to EI240	up to EI240	n/a	up to EI240	n/a
FTV HL	PERFORM R	-	up to EI60	up to EI120	up to EI120	up to EI120	up to EI180	up to EI240	up to EI240	n/a	up to EI240	n/a
FTV HL	PERFORM C	**** up to EI30	up to EI60	up to EI120	up to EI120	up to EI120	up to EI180	up to EI240	up to EI240	n/a	up to EI240	n/a
SNV	POWER T	-	up to EI30	up to EI120	up to EI120	n/a	up to EI120	up to EI120	up to EI120	**** up to EI120	**** up to EI120	n/a
SNV	PERFORM R	-	up to EI30	up to EI120	up to EI120	n/a	up to EI120	up to EI120	up to EI120	n/a	n/a	n/a
SNV	PERFORM C	-	up to EI60	up to EI120	up to EI120	n/a	up to EI180	up to EI180	up to EI180	n/a	n/a	n/a
FTV SOUND	POWER T	-	-	-	up to EI90	up to EI90	up to EI90	up to EI90	up to EI90	n/a	up to EI90	n/a
FTV HL SOUND	POWER T	-	-	-	-	-	-	-	-	n/a	-	n/a
SNV SOUND	POWER T	-	-	-	-	n/a	-	-	-	n/a	n/a	n/a

U THERMAL TRANSMITTANCE (W/m²K)***

Product family, product type	Core type	50	60	80	100	120	133	150	172	200	220	240	250*
		PANEL THICKNESS [mm]											
FTV	POWER T	n/a	0,60	0,46	0,37	0,31	0,28	0,25	0,22	0,19	**** 0,17	0,16	0,15
FTV	POWER S	0,77	0,65	0,50	0,41	0,34	0,31	0,28	0,24	0,21	n/a	0,17	n/a
FTV	PERFORM R	n/a	0,63	0,48	0,39	0,33	0,30	0,26	0,23	0,20	n/a	0,17	n/a
FTV	PERFORM C	0,75	0,64	0,49	0,40	0,33	0,30	0,27	0,24	0,20	n/a	0,17	n/a
FTV HL	POWER T	n/a	0,60	0,46	0,37	0,31	0,28	0,25	0,22	0,19	**** 0,17	0,16	0,15
FTV HL	POWER S	0,77	0,65	0,50	0,41	0,34	0,31	0,28	0,24	0,21	n/a	0,17	n/a
FTV HL	PERFORM R	n/a	0,63	0,48	0,39	0,33	0,30	0,26	0,23	0,20	n/a	0,17	n/a
FTV HL	PERFORM C	0,75	0,64	0,49	0,40	0,33	0,30	0,27	0,24	0,20	n/a	0,17	n/a
SNV	POWER T	n/a	0,59	0,45	0,37	0,31	n/a	0,25	0,22	0,19	**** 0,17	**** 0,16	n/a
SNV	PERFORM R	n/a	0,62	0,47	0,39	0,32	n/a	0,26	0,23	0,20	n/a	n/a	n/a
SNV	PERFORM C	n/a	0,63	0,48	0,40	0,33	n/a	0,27	0,24	0,20	n/a	n/a	n/a
FTV SOUND	POWER T	n/a	0,60	0,46	0,37	0,31	0,28	0,25	0,22	0,19	n/a	0,16	n/a
FTV HL SOUND	POWER T	n/a	0,60	0,46	0,37	0,31	0,28	0,25	0,22	0,19	n/a	0,16	n/a
SNV SOUND	POWER T	n/a	0,59	0,45	0,37	0,31	n/a	0,25	0,22	0,19	n/a	n/a	n/a

AIRBORNE SOUND INSULATION Rw (C;Ctr) dB (EN 14509)

Product family, product type	Core type	60	80	100	120	133	150	172	200	220	240	250*
		PANEL THICKNESS [mm]										
FTV	POWER T	30 (-2;-4)	30 (-2;-4)	31 (-3;-4)	31 (-3;-4)	31 (-3;-4)	31 (-3;-4)	31 (-3;-4)	31 (-3;-4)	**** 31 (-3;-4)	31 (-3;-4)	31 (-3;-4)
FTV	POWER S	31 (-2;-3)	31 (-2;-3)	32 (-2;-4)	32 (-2;-4)	32 (-2;-4)	32 (-2;-4)	32 (-2;-4)	32 (-2;-4)	n/a	32 (-2;-4)	n/a
FTV	PERFORM R	30 (-2;-4)	30 (-2;-4)	31 (-3;-4)	31 (-3;-4)	31 (-3;-4)	31 (-3;-4)	31 (-3;-4)	31 (-3;-4)	n/a	31 (-3;-4)	n/a
FTV	PERFORM C	31 (-2;-3)	31 (-2;-3)	32 (-2;-4)	32 (-2;-4)	32 (-2;-4)	32 (-2;-4)	32 (-2;-4)	32 (-2;-4)	n/a	32 (-2;-4)	n/a
FTV HL	POWER T	30 (-1;-3)	30 (-1;-3)	31 (-2;-4)	31 (-2;-4)	31 (-2;-4)	31 (-2;-4)	31 (-2;-4)	31 (-2;-4)	**** 31 (-2;-4)	31 (-2;-4)	31 (-2;-4)
FTV HL	POWER S	31 (-1;-3)	31 (-1;-3)	31 (-2;-4)	31 (-2;-4)	31 (-2;-4)	31 (-2;-4)	31 (-2;-4)	31 (-2;-4)	n/a	31 (-2;-4)	n/a
FTV HL	PERFORM R	30 (-1;-3)	30 (-1;-3)	31 (-2;-4)	31 (-2;-4)	31 (-2;-4)	31 (-2;-4)	31 (-2;-4)	31 (-2;-4)	n/a	31 (-2;-4)	n/a
FTV HL	PERFORM C	31 (-1;-3)	31 (-1;-3)	31 (-2;-4)	31 (-2;-4)	31 (-2;-4)	31 (-2;-4)	31 (-2;-4)	31 (-2;-4)	n/a	31 (-2;-4)	n/a
SNV	POWER T	31 (-1;-3)	31 (-1;-3)	31 (-1;-3)	31 (-1;-3)	n/a	31 (-1;-3)	31 (-1;-3)	31 (-1;-3)	**** 31 (-1;-3)	**** 31 (-1;-3)	n/a
SNV	PERFORM R	31 (-1;-3)	31 (-1;-3)	31 (-1;-3)	31 (-1;-3)	n/a	31 (-1;-3)	31 (-1;-3)	31 (-1;-3)	n/a	n/a	n/a
SNV	PERFORM C	31 (-1;-3)	31 (-1;-3)	31 (-1;-3)	31 (-1;-3)	n/a	31 (-1;-3)	31 (-1;-3)	31 (-1;-3)	n/a	n/a	n/a
FTV SOUND	POWER T	32 (-1;-4) 0,85	32 (-1;-4) 0,9	33 (-2;-4) 0,9	33 (-2;-4) 0,9	33 (-2;-4) 0,9	33 (-2;-4) 0,9	33 (-2;-4) 0,9	33 (-2;-4) 0,9	n/a n/a	33 (-2;-4) 0,9	n/a n/a
FTV HL SOUND	POWER T	32 (-1;-4) 0,85	32 (-1;-4) 0,9	33 (-2;-4) 0,9	33 (-2;-4) 0,9	33 (-2;-4) 0,9	33 (-2;-4) 0,9	33 (-2;-4) 0,9	33 (-2;-4) 0,9	n/a n/a	33 (-2;-4) 0,9	n/a n/a
SNV SOUND	POWER T	32 (-1;-4) 0,85	32 (-1;-4) 0,9	33 (-2;-4) 0,9	33 (-2;-4) 0,9	n/a n/a	33 (-2;-4) 0,9	33 (-2;-4) 0,9	33 (-2;-4) 0,9	n/a n/a	n/a n/a	n/a n/a

WATER PERMEABILITY (EN 14509)

Product family, product type	Core type	50	60	80	100	120	133	150	172	200	220	240	250*
		PANEL THICKNESS [mm]											
FTV	POWER T	n/a	A	A	A	A	A	A	A	A	**** A	A	A
FTV	POWER S	A	A	A	A	A	A	A	A	A	n/a	A	n/a
FTV	PERFORM R	n/a	A	A	A	A	A	A	A	A	n/a	A	n/a
FTV	PERFORM C	A	A	A	A	A	A	A	A	A	n/a	A	n/a
FTV HL	POWER T	n/a	A	A	A	A	A	A	A	A	**** A	A	A
FTV HL	POWER S	A	A	A	A	A	A	A	A	A	n/a	A	n/a
FTV HL	PERFORM R	n/a	A	A	A	A	A	A	A	A	n/a	A	n/a
FTV HL	PERFORM C	A	A	A	A	A	A	A	A	A	n/a	A	n/a
SNV	POWER T	n/a	B	B	B	B	n/a	B	B	B	**** B	**** B	n/a
SNV	PERFORM R	n/a	B	B	B	B	n/a	B	B	B	n/a	n/a	n/a
SNV	PERFORM C	n/a	B	B	B	B	n/a	B	B	B	n/a	n/a	n/a
FTV SOUND	POWER T	n/a	-	-	-	-	-	-	-	-	n/a	-	n/a
FTV HL SOUND	POWER T	n/a	-	-	-	-	-	-	-	-	n/a	-	n/a
SNV SOUND	POWER T	n/a	-	-	-	-	n/a	-	-	-	n/a	n/a	n/a

WEIGHT (Fe 0,55/0,5) [kg/m²]

Product family, product type	Core type	50	60	80	100	120	133	150	172	200	220	240	250*
		PANEL THICKNESS [mm]											
FTV	POWER T	n/a	15.3	17.1	18.9	20.7	21.9	23.4	25.4	27.9	**** 29.7	31.5	32.4
FTV	POWER S	15.8	17	19.4	21.8	24.2	25.8	27.8	30.5	33.8	n/a	38.6	n/a
FTV	PERFORM R	n/a	15.9	17.9	19.9	21.9	23.2	24.9	27.1	29.9	n/a	33.9	n/a
FTV	PERFORM C	15.8	17	19.4	21.8	24.2	25.8	27.8	30.5	33.8	n/a	38.6	n/a
FTV HL	POWER T	n/a	15.3	17.1	18.9	20.7	21.9	23.4	25.4	27.9	**** 29.7	31.5	32.4
FTV HL	POWER S	15.8	17	19.4	21.8	24.2	25.8	27.8	30.5	33.8	n/a	38.6	n/a
FTV HL	PERFORM R	n/a	15.9	17.9	19.9	21.9	23.2	24.9	27.1	29.9	n/a	33.9	n/a
FTV HL	PERFORM C	15.8	17	19.4	21.8	24.2	25.8	27.8	30.5	33.8	n/a	38.6	n/a
SNV	POWER T	n/a	16.7	18.5	20.3	22.1	n/a	24.8	26.8	29.3	**** 31.1	32.9	n/a
SNV	PERFORM R	n/a	17.3	19.3	21.3	23.3	n/a	26.3	28.5	31.3	n/a	n/a	n/a
SNV	PERFORM C	n/a	18.4	20.8	23.2	25.6	n/a	29.2	31.9	35.2	n/a	n/a	n/a
FTV SOUND	POWER T	n/a	14.4	16.2	18.0	19.8	21.0	22.5	24.5	27.0	n/a	30.6	n/a
FTV HL SOUND	POWER T	n/a	14.4	16.2	18.0	19.8	21.0	22.5	24.5	27.0	n/a	30.6	n/a
SNV SOUND	POWER T	n/a	15.8	17.6	19.4	21.2	n/a	23.9	25.9	28.4	n/a	n/a	n/a

Reaction to fire, combustibility, width, length

Product family, product type	Core type	REACTION TO FIRE (EN 13501-1)	COMBUSTIBILITY OF MATERIAL CORE (EN 13501-1)	WIDTH (mm)	LENGTH (m)
FTV	POWER T	A2-s1, d0 (not valid for PVC and PVCF coating)	Mineral wool non-combustible Class A1	600-1200	up to 14 m (< 2 m on request)
FTV	POWER S			600-1200	
FTV	PERFORM R			600-1200	
FTV	PERFORM C			600-1200	
FTV HL	POWER T	A2-s1, d0 (not valid for PVC and PVCF coating)	Mineral wool non-combustible Class A1	600-1100	up to 14 m (< 2 m on request)
FTV HL	POWER S			600-1100	
FTV HL	PERFORM R			600-1100	
FTV HL	PERFORM C			600-1100	
SNV	POWER T	A2-s1, d0 (not valid for PVC and PVCF coating)	Mineral wool non-combustible Class A1	1000	up to 14 m (< 2 m on request)
SNV	PERFORM R			1000	
SNV	PERFORM C			1000	
FTV SOUND	POWER T	B-s1, d0	Mineral wool non-combustible Class A1	1000	up to 14 m (< 2 m on request)
FTV HL SOUND	POWER T			1000	
SNV SOUND	POWER T			100	

CERTIFICATES

Product family, product type	Core type	Certificates
TRIMOTERM FTV (façade panel with standard fixing)	POWER T	CE EN 14509; LPCB Cert. No. 650a to LPS 1208, Cert. No. 650b to LPS 1181, Cert. No. 650d to LPS 1181, Cert. No. 650e to LPS 1175; FM APPROVED; Deutsches Institut für Bautechnik Z-19.52-2457 Z-10.49-625; DTA DOCUMENT TECHNIQUE D'APPLICATION
	POWER S	CE EN 14509; LPCB Cert. No. 650a to LPS 1208, Cert. No. 650b to LPS 1181, Cert. No. 650d to LPS 1181, Cert. No. 650e to LPS 1175; FM APPROVED; SBSC CERTIFIED PRODUCT; Deutsches Institut für Bautechnik Z-19.52-2457 Z-10.49-624; DTA DOCUMENT TECHNIQUE D'APPLICATION
	PERFORM R	CE EN 14509; LPCB Cert. No. 650a to LPS 1208, Cert. No. 650b to LPS 1181, Cert. No. 650d to LPS 1181, Cert. No. 650e to LPS 1175
	PERFORM C	CE EN 14509; LPCB Cert. No. 650a to LPS 1208, Cert. No. 650b to LPS 1181, Cert. No. 650d to LPS 1181, Cert. No. 650e to LPS 1175; FM APPROVED; SBSC CERTIFIED PRODUCT; Deutsches Institut für Bautechnik Z-10.49-550; DTA DOCUMENT TECHNIQUE D'APPLICATION
TRIMOTERM FTV HL (façade panel with hidden fixing)	POWER T	CE EN 14509; LPCB Cert. No. 650a to LPS 1208, Cert. No. 650d to LPS 1181, Cert. No. 650e to LPS 1175; FM APPROVED; Deutsches Institut für Bautechnik Z-19.52-2457 Z-10.49-625; DTA DOCUMENT TECHNIQUE D'APPLICATION
	POWER S	CE EN 14509; LPCB Cert. No. 650a to LPS 1208, Cert. No. 650d to LPS 1181, Cert. No. 650e to LPS 1175; FM APPROVED; SBSC CERTIFIED PRODUCT; Deutsches Institut für Bautechnik Z-19.52-2457 Z-10.49-624; DTA DOCUMENT TECHNIQUE D'APPLICATION
	PERFORM R	CE EN 14509; LPCB Cert. No. 650a to LPS 1208, Cert. No. 650d to LPS 1181, Cert. No. 650e to LPS 1175
	PERFORM C	CE EN 14509; LPCB Cert. No. 650a to LPS 1208, Cert. No. 650d to LPS 1181, Cert. No. 650e to LPS 1175; FM APPROVED; SBSC CERTIFIED PRODUCT; Deutsches Institut für Bautechnik Z-10.49-550
TRIMOTERM SNV (roof panel)	POWER T	CE EN 14509; LPCB Cert. No. 650a to LPS 1208, Cert. No. 650b to LPS 1181; FM APPROVED; Deutsches Institut für Bautechnik Z-10.49-625
	PERFORM R	CE EN 14509; LPCB Cert. No. 650a to LPS 1208, Cert. No. 650b to LPS 1181
	PERFORM C	CE EN 14509; LPCB Cert. No. 650a to LPS 1208, Cert. No. 650b to LPS 1181; FM APPROVED; SBSC CERTIFIED PRODUCT; Deutsches Institut für Bautechnik Z-10.49-550
TRIMOTERM FTV SOUND	POWER T	-
TRIMOTERM FTV HL SOUND	PERFORM R	-
TRIMOTERM SNV SOUND	PERFORM C	-

*** FOR FRENCH OR GERMAN MARKET CONSULT TRIMO'S TECHNICAL SUPPORT TO COMPLY WITH REGIONAL LEGISLATION.**
**** REQUEST FOR FIRE RESISTANCE MUST BE CLEARLY SPECIFIED BY CUSTOMER.**
EXACT FIRE RATING WITH REGARDS TO SYSTEM, ORIENTATION AND SPAN CAN BE FOUND UNDER THE CERTIFICATION SUBPAGE ON TRIMO WEB PAGE:
https://www.trimo-group.com/en/downloads/certificates-and-data-sheets/certificates

*** VALUES VALID ONLY FOR FEATURED APPLICATION IN THE CENTRE OF PANEL
**** PLEASE CHECK FOR AVAILABILITY OF PRODUCT

(grey shading) SOUND ABSORPTION VALUES (αw)

A WATER PERMEABILITY CLASS (EN 14509): CLASS A 1200 Pa (wall)
B WATER PERMEABILITY CLASS (EN 14509): CLASS B 900 Pa (roof)
n/a PRODUCT NOT AVAILABLE
\- DATA NOT AVAILABLE